



MARITIME SECURITY CENTRE OF EXCELLENCE
“Working Together for Maritime Security”

COMPREHENSIVE MARITIME SECURITY OPERATIONS (MSO) COURSE

COMMEMORATIVE BULLETIN



COMPREHENSIVE MARITIME SECURITY OPERATIONS COURSE

Maritime Security Centre of Excellence (MARSEC COE) conducted "Comprehensive Maritime Security Operations Course" from 4 to 15 December 2023 with the contributions of distinguished instructors in their fields.

21 Lecturers (from 4 countries) and 36 attendees (from 10 countries) were involved in the activity.

This course provided trainees a comprehensive approach on NATO Maritime Security, NATO Maritime Security Operations (MSO), and its tasks, as they are articulated in NATO MSO Concept (MC 0588), including its History, Law, Concepts, Doctrines, Challenges, Operations Planning, and other aspects, through analyzing challenges, risks, and threats on regional and global scale and their potential impacts on Alliance Security.

Academic Advisors: (R) CAPT. FARUK DOĞAN, (R) CDR. KEVIN DUFFY



HISTORY OF MARITIME SECURITY OPERATIONS

CDR (US N) WILLIAM BLANTON (MARCOM)



Performance

Analyze the historical developments that have shaped the evolution of maritime security operations.

Achievements

Upon completion of the module, trainees will be able to explain the key events and factors that have contributed to the evolution of maritime security.

NATO STRATEGIC CONCEPT

CDR (US N) WILLIAM BLANTON (MARCOM)



Performance

Define the NATO Strategic Concept and its role in achieving national and collective security objectives.

Achievements

Upon completion of this Enabling Learning Objective (ELO), trainees will be able to explain the fundamental principles of The NATO Strategic Concept and its importance in safeguarding maritime interests.



NATO'S MARITIME STRATEGY CDR (US N) WILLIAM BLANTON (MARCOM)



Performance

Describe the role of NATO's Maritime Strategy in achieving its maritime security objectives.



Achievements

After completing the lesson, trainees should be able to explain how maritime strategies contribute to enhancing security in maritime environment.

THE CONCEPT OF MARITIME SITUATIONAL AWARENESS (MSA) CDR (US N) WILLIAM BLANTON (MARCOM)



Performance

Define and describe the concept of Maritime Situational Awareness (MSA).



Achievements

Upon completion of the lesson, trainees should be able to articulate the key components and significance of MSA in maritime security operations.



NATO MARITIME SECURITY OPERATIONS (MSO) CONCEPT

LT. CDR. ROB COATSWORTH (MARCOM)



Performance

Review and evaluate the key elements of the NATO's Maritime Security Operations (MSO) Concept and approach.

Achievements

Upon completing the lesson, trainees should be able to explain the fundamental components of the NATO MSO approach and its alignment with maritime security goals.

THE KEY PRINCIPLES OF MARITIME SECURITY LAW AND LEGAL ASPECTS OF MSO

ASSOC. PROF. DOLUNAY ÖZBEK



Performance

Explain the key principles and concepts of maritime security law and legal aspects in the context of maritime security operations.

Achievements

Upon completing the lesson, trainees should be able to explain the fundamental components of the NATO MSO approach and its alignment with maritime security goals.

MARITIME SECURITY RISKS AND THREATS

DR. SCOTT EDWARDS



Performance

Define and distinguish between various maritime security risks and threats in the maritime environment.



Achievements

Upon completing the lesson, trainees should be able to categorize and explain the nature and implications of different maritime security risks and threats.

THE KEY COMPONENTS OF MARITIME SITUATIONAL AWARENESS (MSA)

CDR. (TUR N) SELİM BAHÇEKAPILI



Performance

Identify the key components of Maritime Situational Awareness (MSA) and its significance in enhancing Maritime Security Operations and additionally the techniques to gather, process, and analyze maritime data to enhance situational awareness in a dynamic maritime environment.



Achievements

Upon completion of this ELO, trainees will be able to explain the elements of MSA and their role in effective decision-making during maritime security operations and the trainees will also be able to demonstrate proficiency in utilizing available data to maintain an accurate and current maritime situational picture.

CAPACITY-BUILDING EFFORTS IN MSO

(R) CDR. KEVIN DUFFY



Performance

Describe the concept of maritime security capacity building and its role in promoting regional stability and cooperation, and additionally evaluate the factors that influence the effectiveness of capacity-building efforts and the challenges faced in implementing maritime security programs.

Achievements

Upon completion of this ELO, trainees will be able to explain the goals and strategies of maritime security capacity-building initiatives and trainees will be able to analyze the key success factors and obstacles in implementing maritime security capacity-building projects.

MARITIME COUNTER-TERRORISM

MR. KENNETH YEO



Performance

Analyze the key components of maritime counter terrorism strategies and their relevance to comprehensive maritime security operations, evaluate the role of international collaboration and partnerships in enhancing maritime counter-terrorism efforts.

Achievements

By the end of the lesson, trainees should be able to identify and explain the main elements of effective maritime counter-terrorism approaches and their implications for broader maritime security, and the significance of international cooperation in countering maritime terrorism and identify potential challenges and benefits.

THE PROLIFERATION OF WEAPONS OF MASS DESTRUCTION (WMD) CDR. (TUR N) DENİZ ÇETİKLİ



Performance

Describe the risks posed by the proliferation of Weapons of Mass Destruction (WMD) in the maritime environment and its implications for global security, develop a comprehensive strategy for preventing the proliferation of WMD in the maritime environment.

Achievements

By the end of the lesson, trainees should be able to identify and explain the main elements of effective maritime counter-terrorism approaches and their implications for broader maritime security, and the significance of international cooperation in countering maritime terrorism and identify potential challenges and benefits.

PROTECTION OF MARITIME CRITICAL INFRASTRUCTURE MR. SEAN PLANKEY



Performance

Identify the types of critical infrastructure in the maritime environment and their significance in comprehensive maritime security operations and formulate a protection strategy for safeguarding maritime critical infrastructure against potential threats.

Achievements

By the end of the lesson, trainees should be able to categorize and explain the importance of various critical infrastructure components in ensuring maritime security and they should also be able to outline a multi-layered protection plan that integrates proactive measures to prevent attacks on critical infrastructure.



PRINCIPALS AND LEGAL CONSIDERATIONS OF MARITIME INTERDICTION OPERATIONS ASSOC. PROF. BLEDA KURTDARCAN



Performance

Analyze the principles and legal considerations of maritime interdiction operations for countering illicit activities and consider operational factors and potential challenges of a maritime interdiction operation plan.

Achievements

By the end of the lesson, trainees should be able to explain the legal frameworks and operational principles that govern maritime interdiction efforts, and they should be able to outline a comprehensive interdiction operation plan.

CYBER INTELLIGENCE, CYBER RISKS AND VULNERABILITIES IN MARITIME SECURITY OPERATIONS MR. SEAN PLANKEY



Performance

Explain the role of cyber intelligence in enhancing maritime situational awareness and addressing emerging security threats and review fundamental principles of cyber intelligence analysis to assess potential cyber risks and vulnerabilities in maritime operations.

Achievements

Upon completion of this, ELO trainees will be able to describe the significance of cyber intelligence in countering maritime security challenges and they will be able to conduct a basic analysis of cyber threats to maritime assets and infrastructure.

OPERATIONAL ASPECTS OF UNMANNED SYSTEMS AT MARITIME SECURITY

(R) LT. CDR. (TUR N) AYKUT KERTMEN



Performance

Describe the various types of unmanned systems used in maritime security operations and their capabilities and evaluate operational considerations.

Achievements

Upon completion of this ELO, trainees will be able to categorize different unmanned systems and explain their potential contributions to maritime security.

LEGAL ASPECTS OF UNMANNED SYSTEMS AT MARITIME SECURITY

ASSOC. PROF. BLEDA KURTDARCAN



Performance

Evaluate the legal considerations associated with the deployment of unmanned systems in maritime security operations.

Achievements

Upon completion of this ELO, trainees will be able to analyze the legal implications of using unmanned systems for various MSO objectives.



FREEDOM OF NAVIGATION

ASSOC. PROF. BLEDA KURTDARCAN



Performance

Examine the legal and diplomatic aspects of freedom of navigation in the context of international maritime law and develop a plan for ensuring freedom of navigation in contested maritime areas while minimizing conflict escalation.



Achievements

By the end of the lesson, trainees should be able to discuss the legal principles and diplomatic considerations that underpin the concept of freedom of navigation and trainees should be able to outline a comprehensive strategy that balances navigation rights with conflict avoidance measures in regions with overlapping maritime claims.

EMERGING CHALLENGES IN THE MARITIME ENVIRONMENT

CAPT. (TUR N) SERDAR TOMBUL



Performance

Evaluate emerging challenges in the maritime environment beyond piracy and energy security, such as environmental threats and illegal fishing and develop an integrated approach for addressing various non-traditional challenges at sea, emphasizing cooperation with international organizations and stakeholders.



Achievements

By the end of the lesson, trainees should be able to discuss the potential impacts of environmental threats and illegal fishing on maritime security and identify key strategies for addressing these challenges and they should be able to outline a comprehensive approach that combines legal actions, surveillance, and cooperative initiatives to address emerging challenges such as environmental threats and illegal fishing.

GENDER PERSPECTIVE IN MARITIME SECURITY OPERATIONS

LT. CDR. (GBR N) JAMIE BROTHERTON



Performance

Describe the significance of integrating a gender perspective in maritime security operations and its potential to enhance operational effectiveness and examine gender analysis techniques to evaluate the potential gender-specific impacts of security threats and formulate gender-sensitive responses.

Achievements

Upon completion of this ELO, trainees will be able to explain how a gender-inclusive approach contributes to more comprehensive and effective MSO and they will be able to assess the gender dimensions of maritime security challenges and propose strategies for inclusive risk mitigation.

MIGRATION AT SEA AND MARITIME SECURITY

MS. MELTEM HAMİT



Performance

Describe the causes and consequences of migration at sea and its implications for maritime security and stability and evaluate the role of maritime security operations in addressing migration challenges, including search and rescue, border control, and humanitarian assistance.

Achievements

Upon completion of this ELO, trainees will be able to explain the factors driving migration and its potential impact on maritime security and they will be able to analyze the diverse roles and responsibilities of maritime security forces in responding to migration incidents.



PIRACY AND ARMED ROBBERY AT SEA

(R) CAPT. FARUK DOĞAN



Performance

Differentiate between piracy and armed robbery at sea, including their characteristics, motivations, and impacts on maritime security and formulate a multi-dimensional strategy for countering piracy and armed robbery at sea, considering legal, operational, and cooperative approaches.

Achievements

By the end of the lesson, trainees should be able to explain the key differences between piracy and armed robbery and understand the potential consequences of these threats to maritime security and they should be able to outline a comprehensive strategy that integrates legal actions, maritime situational awareness, cooperation with regional partners, and use of security forces to counter piracy and armed robbery.

MARITIME ENERGY SECURITY

MS. JOSEPHINE LONG



Performance

Analyze the significance of maritime energy security as a critical aspect of comprehensive maritime security operations and develop a maritime energy security strategy that encompasses preventive measures, crisis management, and cooperation with energy-producing and consuming nations.

Achievements

By the end of the lesson, trainees should be able to discuss the importance of maritime energy security in maintaining stable global energy supply chains and its implications for maritime security and they should be able to outline a comprehensive strategy that addresses the challenges of maritime energy security, including threat identification, risk assessment, and cooperation mechanisms.



CULTURAL AWARENESS IN MARITIME SECURITY OPERATIONS

DR. ANNETTE BRADFORD



Performance

Recognize the importance of cultural awareness in effective maritime security operations and its impact on interactions with diverse stakeholders and review cultural awareness principles to analyze potential cultural factors that may influence security threats and responses in different maritime regions.

Achievements

Upon completion of this ELO, trainees will be able to explain the significance of cultural understanding in building positive relationships during MSO and they will be able to identify cultural dynamics that could impact security risks and contribute to effective threat assessments.

OPERATIONAL PLANNING PROCESS FOR MARITIME SECURITY OPERATIONS

MR. SHAWN WHITESIDE



Performance

Describe the components and phases of the operational planning process for maritime security operations, including mission analysis, course of action development, and implementation and apply operational planning techniques to analyze complex maritime security challenges, formulate viable courses of action, and develop a detailed operational plan.

Achievements

Upon completion of this ELO, trainees will be able to explain the key steps and considerations in developing a comprehensive operational plan for MSO and they will be able to develop a comprehensive operational plan addressing various aspects of a complex MSO objective.



LESSONS LEARNED, BEST PRACTICES FROM MARITIME SECURITY OPERATIONS

(R) CDR. KEVIN DUFFY



Performance

Analyze past maritime security operations to identify lessons learned, best practices, and areas for improvement and review lessons learned from previous maritime security operations to refine operational plans and adapt strategies for changing security dynamics.

Achievements

Upon completion of this ELO, trainees will be able to extract valuable insights from previous MSO experiences to enhance future planning and execution and they will be able to integrate relevant lessons into a sample operational plan and adjust tactics to address evolving threats.

MARITIME SECURITY CASE STUDIES

CIV. CAPT. UĞUR MÜMTAZ TEMELTAŞ



Performance

Collaborate with peers to analyze several fictional or real world complex maritime security case studies, identify operational challenges, and propose a comprehensive solution and synthesize knowledge gained throughout the course to design and present an integrated maritime security operational plan that addresses multiple challenges.

Achievements

Upon completion of this ELO, trainees will be able to work effectively in a team to critically assess a realistic MSO scenario and develop a detailed operational proposal and they will be able to demonstrate a high-level understanding of maritime security concepts by developing a multi-faceted operational plan.



MARITIME SECURITY CASE STUDIES
 DR. ANNETTE BRADFORD / MR. JOHN BRADFORD



Performance

Collaborate with peers to analyze several fictional or real world complex maritime security case studies, identify operational challenges, and propose a comprehensive solution and synthesize knowledge gained throughout the course to design and present an integrated maritime security operational plan that addresses multiple challenges.

Achievements

Upon completion of this ELO, trainees will be able to work effectively in a team to critically assess a realistic MSO scenario and develop a detailed operational proposal and they will be able to demonstrate a high-level understanding of maritime security concepts by developing a multi-faceted operational plan.

MARITIME SECURITY EXERCISE PLANNING
 MR. JOHN BRADFORD / (R) CDR. KEVIN DUFFY



Performance

Explain the purpose and benefits of conducting maritime security exercises and their role in enhancing operational readiness and interagency cooperation and contribute to the planning and execution of a maritime security exercise by applying principles of scenario design, participant role assignment, and evaluation criteria.

Achievements

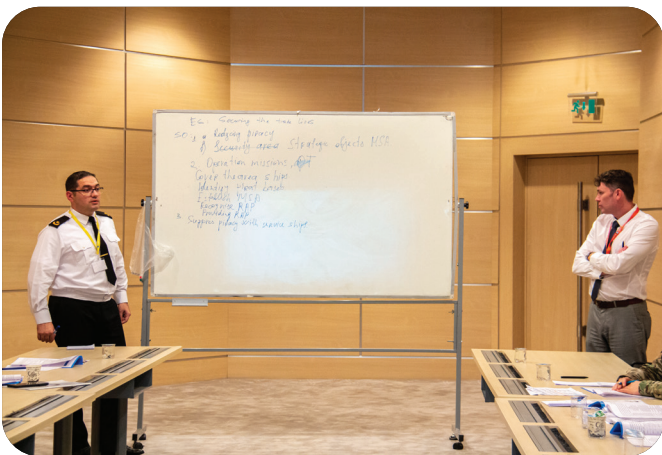
Upon completion of this ELO, trainees will be able to describe the significance of realistic and scenario-based exercises in preparing for actual MSO and they will be able to develop a basic exercise scenario and evaluation framework for a specific MSO objective.



MARITIME SECURITY OPERATIONS PRACTICAL ACTIVITY (TTX/SYNDICATE WORK)



MARITIME SECURITY OPERATIONS PRACTICAL ACTIVITY (TTX/SYNDICATE WORK)



COMMENTS FROM TRAINING AUDIENCE

- What is the best thing about this course?



"The quality of lecturers and their lectures."



"Exercise at the end and real life experiences."



"To have participants from different nationalities and different backgrounds and the lecturers proven themselves quite capable in their fields of expertise."



"The best thing is the fact that everyone came from different countries with different realities. It allows seeing the differences existing and exploring the benefits that result from it."



"The best thing is the meeting of multiple cultures, which allowed us to learn more from others."









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